

Abstract

Piezoelectric Component and Method for the Production Thereof

5 The invention relates to a piezoelectric component having a stack (1) of
piezoelectric layers (2) stacked on top of one another and electrode layers (3a, 3b)
arranged between them, wherein the electrode layers (3a, 3b) have a middle segment (4)
in the interior of the stack (1), as well as an end segment (6) delimited by the interior side
of a vertical edge zone (5) of the stack (1), wherein the end segments (6) of the electrode
10 layers (3a, 4b) are enclosed by a first piezoelectric material (7), whose relative expansion
is less than the relative expansion of a second piezoelectric material (9), which is arranged
in a middle region (8) between two adjacent electrode layers (3a, 3b). Furthermore, the
invention relates to a method for the production of the piezoelectric component. The
component according to the invention has the advantage that the mechanical stress in
15 proximity to the ends of the internal electrodes is reduced, thereby improving the
serviceable life of the component.

Figure 6